

Author index of Volume 105*

- Arora, J.S., An exposition of the material derivative approach for structural shape sensitivity analysis (1) 41-62
- Baiocchi, C., F. Brezzi and L.P. Franca, Virtual bubbles and Galerkin-least-squares type methods (Ga.L.S.) (1) 125-141
- Banerjee, P.K., see Shi, Y. (2) 261-284
- Belytschko, T. and L.P. Bindeman, Assumed strain stabilization of the eight node hexahedral element (2) 225-260
- Belytschko, T. and I.S. Yeh, The splitting pinball method for contact-impact problems (3) 375-393
- Bindeman, L.P., see Belytschko, T. (2) 225-260
- Bishop, S.R., see Koliopoulos, P.K. (1) 143-150
- Brezzi, F., see Baiocchi, C. (1) 125-141
- Chen, M.-H., see Shyy, W. (3) 333-358
- Chuang, J.M., Q.Y. Gui and C.C. Hsiung, Numerical computation of Schwarz-Christoffel transformation for simply connected unbounded domain (1) 93-109
- Dafalias, Y.F., see Loret, B. (2) 151-180
- Dutra do Carmo, E.G., Finite element spaces with discontinuity capturing, Part I: Transport problems with boundary layers (3) 299-314
- Elishakoff, I., A. Sternberg and T.J. Van Baten, Vibrations of multispan all-round clamped stiffened plates by modified dynamic edge effect method (2) 211-223
- Elishakoff, I. and L. Zhu, Random vibration of structures by the finite element method (3) 359-373
- Franca, L.P., see Baiocchi, C. (1) 125-141
- Franca, L.P. and T.J.R. Hughes, Convergence analyses of Galerkin least-squares methods for symmetric advective-diffusive forms of the Stokes and incompressible Navier-Stokes equations (2) 285-298
- Franca, L.P. and A.L. Madureira, Element diameter free stability parameters for stabilized methods applied to fluids (3) 395-403
- Ganesan, R., see Ramu, S.A. (3) 315-331
- Gui, Q.Y., see Chuang, J.M. (1) 93-109

* The issue number is given in front of the page numbers.

- Hammoum, F., see Loret, B. (2) 151-180
Hassenpflug, W.C., Rotation angles (1) 111-124
Hsiung, C.C., see Chuang, J.M. (1) 93-109
Hughes, T.J.R., see Franca, L.P. (2) 285-298
Hughes, T.J.R., see Jansen, K. (3) 405-433
- Jansen, K., Z. Johan and T.J.R. Hughes, Implementation of a one-equation turbulence model within a stabilized finite element formulation of a symmetric advective-diffusive system (3) 405-433
Johan, Z., see Jansen, K. (3) 405-433
Johansson, L. and A. Klarbring, Thermoelastic frictional contact problems: Modelling, finite element approximation and numerical realization (2) 181-210
- Klarbring, A., see Johansson, L. (2) 181-210
Koliopulos, P.K., S.R. Bishop and G.D. Stefanou, Response amplitude probability functions of a hardening Duffing oscillator subjected to filtered white noise (1) 143-150
- Loret, B., F. Hammoum and Y.F. Dafalias, Computational aspects of large elastoplastic deformations in the presence of anisotropy and plastic spin (2) 151-180
- Madureira, A.L., see Franca, L.P. (3) 395-403
- Rajakumar, C., Lanczos algorithm for the quadratic eigenvalue problem in engineering applications (1) 1- 22
Ramu, S.A. and R. Ganesan, A Galerkin finite element technique for stochastic field problems (3) 315-331
- Shi, Y. and P.K. Banerjee, Boundary element methods for convective heat transfer (2) 261-284
Shyy, W. and M.-H. Chen, A study of the transport process of buoyancy-induced and thermocapillary flow of molten alloy (3) 333-358
Stefanou, G.D., see Koliopulos, P.K. (1) 143-150
Sternberg, A., see Elishakoff, I. (2) 211-223
- Van Baten, T.J., see Elishakoff, I. (2) 211-223
Van Gijzen, M.B., An analysis of element-by-element preconditioners for nonsymmetric problems (1) 23- 40
- Yeh, I.S., see Belytschko, T. (3) 375-393
- Zdunek, A.B., Theory and computation of the steady state harmonic response of viscoelastic rubber parts (1) 63- 92
Zhu, L., see Elishakoff, I. (3) 359-373

Subject index of Volume 105*

Dynamics

- Rotation angles, W.C. Hassenpflug (1) 111-124
- Response amplitude probability functions of a hardening Duffing oscillator subjected to filtered white noise, P.K. Koliopulos, S.R. Bishop and G.D. Stefanou (1) 143-150
- Vibrations of multispan all-round clamped stiffened plates by modified dynamic edge effect method, I. Elishakoff, A. Sternberg and T.J. Van Baten (2) 211-223
- A Galerkin finite element technique for stochastic field problems, S.A. Ramu and R. Ganesan (3) 315-331

Finite difference methods

- A study of the transport process of buoyancy-induced and thermocapillary flow of molten alloy, W. Shyy and M.-H. Chen (3) 333-358

Finite element and matrix methods

- Virtual bubbles and Galerkin-least-squares type methods (Ga.L.S.), C. Baiocchi, F. Brezzi and L.P. Franca (1) 125-141
- Thermoelastic frictional contact problems: Modelling, finite element approximation and numerical realization, L. Johansson and A. Klarbring (2) 181-210
- Assumed strain stabilization of the eight node hexahedral element, T. Belytschko and L.P. Bindeman (2) 225-260
- Convergence analyses of Galerkin least-squares methods for symmetric advective-diffusive forms of the Stokes and incompressible Navier-Stokes equations, L.P. Franca and T.J.R. Hughes (2) 285-298
- Finite element spaces with discontinuity capturing, Part I: Transport problems with boundary layers, E.G. Dutra do Carmo (3) 299-314
- A Galerkin finite element technique for stochastic field problems, S.A. Ramu and R. Ganesan (3) 315-331
- Random vibration of structures by the finite element method, I. Elishakoff and L. Zhu (3) 359-373
- The splitting pinball method for contact-impact problems, T. Belytschko and I.S. Yeh (3) 375-393

* The issue number is given in front of the page numbers.

- Element diameter free stability parameters for stabilized methods applied to fluids, L.P. Franca and A.L. Madureira (3) 395-403
- Implementation of a one-equation turbulence model within a stabilized finite element formulation of a symmetric advective-diffusive system, K. Jansen, Z. Johan and T.J.R. Hughes (3) 405-433

Fluid mechanics

- Convergence analyses of Galerkin least-squares methods for symmetric advective-diffusive forms of the Stokes and incompressible Navier-Stokes equations, L.P. Franca and T.J.R. Hughes (2) 285-298
- Finite element spaces with discontinuity capturing, Part I: Transport problems with boundary layers, E.G. Dutra do Carmo (3) 299-314
- A study of the transport process of buoyancy-induced and thermocapillary flow of molten alloy, W. Shyy and M.-H. Chen (3) 333-358
- Element diameter free stability parameters for stabilized methods applied to fluids, L.P. Franca and A.L. Madureira (3) 395-403
- Implementation of a one-equation turbulence model within a stabilized finite element formulation of a symmetric advective-diffusive system, K. Jansen, Z. Johan and T.J.R. Hughes (3) 405-433

General Rayleigh-Ritz and Galerkin techniques

- Virtual bubbles and Galerkin-least-squares type methods (Ga.L.S.), C. Baiocchi, F. Brezzi and L.P. Franca (1) 125-141
- A Galerkin finite element technique for stochastic field problems, S.A. Ramu and R. Ganesan (3) 315-331

Heat and diffusion

- Boundary element methods for convective heat transfer, Y. Shi and P.K. Banerjee (2) 261-284

Incompressible and near incompressible media

- Theory and computation of the steady state harmonic response of viscoelastic rubber parts, A.B. Zdunek (1) 63- 92

Kinematics

- Rotation angles, W.C. Hassenpflug (1) 111-124

Matrix calculus

- Lanczos algorithm for the quadratic eigenvalue problem in engineering applications, C. Rajakumar (1) 1- 22

- An analysis of element-by-element preconditioners for nonsymmetric problems, M.B. van Gijzen (1) 23–40

Miscellaneous topics

- Numerical computation of Schwarz–Christoffel transformation for simply connected unbounded domain, J.M. Chuang, Q.Y. Gui and C.C. Hsiung (1) 93–109

Nonlinear mechanics

- Rotation angles, W.C. Hassenpflug (1) 111–124
- Computational aspects of large elastoplastic deformations in the presence of anisotropy and plastic spin, B. Loret, F. Hammoum and Y.F. Dafalias (2) 151–180
- Thermoelastic frictional contact problems: Modelling, finite element approximation and numerical realization, L. Johansson and A. Klarbring (2) 181–210
- Assumed strain stabilization of the eight node hexahedral element, T. Belytschko and L.P. Bindeman (2) 225–260

Numerical solution procedure

- Lanczos algorithm for the quadratic eigenvalue problem in engineering applications, C. Rajakumar (1) 1–22
- An analysis of element-by-element preconditioners for nonsymmetric problems, M.B. van Gijzen (1) 23–40
- An exposition of the material derivative approach for structural shape sensitivity analysis, J.S. Arora (1) 41–62
- Numerical computation of Schwarz–Christoffel transformation for simply connected unbounded domain, J.M. Chuang, Q.Y. Gui and C.C. Hsiung (1) 93–109
- Thermoelastic frictional contact problems: Modelling, finite element approximation and numerical realization, L. Johansson and A. Klarbring (2) 181–210
- Convergence analyses of Galerkin least-squares methods for symmetric advective–diffusive forms of the Stokes and incompressible Navier–Stokes equations, L.P. Franca and T.J.R. Hughes (2) 285–298
- Finite element spaces with discontinuity capturing, Part I: Transport problems with boundary layers, E.G. Dutra do Carmo (3) 299–314
- A Galerkin finite element technique for stochastic field problems, S.A. Ramu and R. Ganesan (3) 315–331
- A study of the transport process of buoyancy-induced and thermocapillary flow of molten alloy, W. Shyy and M.-H. Chen (3) 333–358
- The splitting pinball method for contact-impact problems, T. Belytschko and I.S. Yeh (3) 375–393

- Element diameter free stability parameters for stabilized methods
applied to fluids, L.P. Franca and A.L. Madureira (3) 395-403
- Implementation of a one-equation turbulence model within a stabilized
finite element formulation of a symmetric advective-diffusive system,
K. Jansen, Z. Johan and T.J.R. Hughes (3) 405-433

Optimization

- An exposition of the material derivative approach for structural shape
sensitivity analysis, J.S. Arora (1) 41- 62

Plasticity

- Computational aspects of large elastoplastic deformations in the
presence of anisotropy and plastic spin, B. Loret, F. Hammoum and
Y.F. Dafalias (2) 151-180

Solution of integral equations (singularity method)

- Boundary element methods for convective heat transfer, Y. Shi and
P.K. Banerjee (2) 261-284

Stability in structural mechanics

- A Galerkin finite element technique for stochastic field problems,
S.A. Ramu and R. Ganesan (3) 315-331

Stochastic processes

- A Galerkin finite element technique for stochastic field problems,
S.A. Ramu and R. Ganesan (3) 315-331

Structural mechanics

- An exposition of the material derivative approach for structural shape
sensitivity analysis, J.S. Arora (1) 41- 62
- Assumed strain stabilization of the eight node hexahedral element,
T. Belytschko and L.P. Bindeman (2) 225-260
- The splitting pinball method for contact-impact problems, T. Belytschko
and I.S. Yeh (3) 375-393

Systems of linear and nonlinear simultaneous equations

- An analysis of element-by-element preconditioners for nonsymmetric
problems, M.B. van Gijzen (1) 23- 40

Transport phenomena

- Virtual bubbles and Galerkin-least-squares type methods (Ga.L.S.),
C. Baiocchi, F. Brezzi and L.P. Franca (1) 125–141
- Convergence analyses of Galerkin least-squares methods for symmetric
advective–diffusive forms of the Stokes and incompressible
Navier–Stokes equations, L.P. Franca and T.J.R. Hughes (2) 285–298
- Finite element spaces with discontinuity capturing, Part I: Transport
problems with boundary layers, E.G. Dutra do Carmo (3) 299–314
- Element diameter free stability parameters for stabilized methods
applied to fluids, L.P. Franca and A.L. Madureira (3) 395–403
- Implementation of a one-equation turbulence model within a stabilized
finite element formulation of a symmetric advective–diffusive system,
K. Jansen, Z. Johan and T.J.R. Hughes (3) 405–433

Turbulence

- Implementation of a one-equation turbulence model within a stabilized
finite element formulation of a symmetric advective–diffusive system,
K. Jansen, Z. Johan and T.J.R. Hughes (3) 405–433

Viscoelastic and viscoplastic media

- Theory and computation of the steady state harmonic response of
viscoelastic rubber parts, A.B. Zdunek (1) 63– 92

